

Title (en)  
TENSION-APPLYING MEMBER, TENSION-APPLYING-MEMBER ASSEMBLY, ENGINE, AND SADDLE-TYPE VEHICLE

Title (de)  
SPANNUNGSANWENDUNGSELEMENT, ANORDNUNG AUS SPANNUNGSANWENDUNGSELEMENTEN, MOTOR UND SATTELFahrzeug

Title (fr)  
ÉLÉMENT CONFÉRANT UNE FORCE DE TENSION AINSI QUE CORPS DE MONTAGE ASSOCIÉ, MOTEUR, ET VÉHICULE À SELLE

Publication  
**EP 2589835 A4 20140312 (EN)**

Application  
**EP 12789475 A 20120508**

Priority  
• JP 2011114094 A 20110520  
• JP 2012061764 W 20120508

Abstract (en)  
[origin: EP2589835A1] An arrangement is provided using a blade tensioner to tension a cam chain, where the tensioner and cam chain can be easily attached to an engine having a cylinder body that does not have a side that can be opened. A blade shoe (168) includes a plate portion (172), front end portion (179), rear end portion (175), first jig mounting portion (300) and second jig mounting portion (302). The first jig mounting portion (300) is provided closer to the front end portion (179) than the center of the tensioning member as measured in a length direction is and a jig (200) is attached thereto. The second jig mounting portion (302) is provided closer to the rear end portion (175) than the center of the tensioning member as measured in a length direction is and the jig (200) is attached thereto. The first jig mounting portion (300) has an opening (301) facing in a direction crossing a direction in which the leaf spring (166) extends.

IPC 8 full level  
**F16H 7/08** (2006.01); **F02B 67/06** (2006.01)

CPC (source: EP)  
**F02B 61/02** (2013.01); **F16H 7/08** (2013.01); **B62K 2202/00** (2013.01); **F02B 67/06** (2013.01); **F02B 75/16** (2013.01); **F16H 2007/0804** (2013.01); **F16H 2007/0842** (2013.01); **F16H 2007/0893** (2013.01); **F16H 2007/0897** (2013.01)

Citation (search report)  
• [XA] EP 1323949 A2 20030702 - BORGWARNER MORSE TEC JAPAN KK [JP]  
• [XA] EP 1096174 A1 20010502 - BORGWARNER INC [US]  
• [XA] JP 2003314637 A 20031106 - BORG WARNER MORSE TEC JAPAN KK  
• [A] JP 2008002669 A 20080110 - HONDA MOTOR CO LTD  
• [A] US 2002107096 A1 20020808 - TSURUTA SHINJI [JP], et al  
• See references of WO 2012160960A1

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Designated contracting state (EPC)  
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BR 112013002465 B1 20220125; CN 103052828 A 20130417; CN 103052828 B 20160921; ES 2661457 T3 20180402;  
JP 2014156870 A 20140828; MY 176846 A 20200824; TW 201250141 A 20121216; TW I465657 B 20141221; WO 2012160960 A1 20121129

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